

COMPREHENSIVE SERVICES PROGRAM

# Need energy solutions?



## Products and Services

Through the Comprehensive Services Program (CSP), TVA and local power companies provide engineering and technical assistance for residential, commercial and industrial customers at little or no charge.

CSP covers all areas related to energy, including predictive maintenance, energy use, power analysis and technical services. Our services include:



## Predictive Maintenance

### Infrared Scans

Infrared scans of electrical equipment such as transformers, breakers, bus and conductor connections for hot spots, as well as scans for facility heating-and-cooling loss.

### Ultrasonic Testing

Ultrasound technology can locate compressed air leaks caused by vibration, holes in hoses, loose joints and cracks.

## Energy Use

### Energy Audits

General survey of energy use in a facility and recommendations on energy management opportunities, process and facility improvements.

### Water Heating

Studies explore heat-pump water heater applications, standard energy-efficient water heaters, and cost comparison of electric versus fossil-fuel systems.

### Energy Modeling

Computer-aided building modeling software or bin-hour calculations are used to model building improvements, changes in use and estimate the utility cost impact of these changes.



TENNESSEE  
VALLEY  
AUTHORITY





---

## Power Analysis

### Power Quality

Studies address voltage problems originating inside or outside the facility that adversely affect the end user.

### Metering

We install temporary metering equipment to gather data on facility electrical usage.

### Power Factor

Metering and recommendations to correct for low power factor.

### Grounding/Lightning

Grounding study, grounding testing and lightning-protection recommendations.

### Demand-Side Management

Monitoring and testing electrical systems and recommendations related to managing peak demand.

If you use electricity in your business or industry, you could benefit significantly from these services. For more information, or to discuss specific energy issues, call your local power company.

---

## Technical Services

### HVAC

Heating, ventilation, and air-conditioning studies examine the sizing of HVAC equipment, offer heating-and-cooling system comparisons, investigate problems with existing systems and provide recommendations for improvements.

### Lighting

Studies provide recommendations for the design of lighting systems in such places as sports fields, roadways, parking lots, and commercial and industrial plants.

### Wiring and Electrical Distribution Equipment

Studies analyze the facility's distribution system, including the sizing of wiring and equipment, and provide recommendations for system improvement.

### Compressed-air Systems

In-depth studies to analyze how compressed-air is used. Determine system performance and recommend improvements. Determine the cost of compressed-air use and methods for reducing utility costs.

---

tva.com |  facebook.com/TVA |  @TVAnews |  @TVA

For alternate formats of this document, call 865-632-6824 and allow five working days for processing.